



U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER NODSKOV1
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/019722
INTERNATIONAL APPLICATION NO. PCT/DK00/00355	INTERNATIONAL FILING DATE 30 June 2000	PRIORITY CLAIMED 2 July 1999
TITLE OF INVENTION A HANDHELD PIEZOELECTRIC ACUPUNCTURE STIMULATOR		
APPLICANT(S) FOR DO/EO/US Preben NØDSKOV		
<p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). 4. <input checked="" type="checkbox"/> The US has been elected in a Demand by the expiration of 19 months from the priority date (PCT Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
<p>Items 11. to 16. below concern document(s) or information included:</p> <ol style="list-style-type: none"> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An Assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <ul style="list-style-type: none"> <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 14. <input type="checkbox"/> A substitute specification. 15. <input type="checkbox"/> A change of power of attorney and/or address letter. 16. <input checked="" type="checkbox"/> Other items or information: <ul style="list-style-type: none"> <input type="checkbox"/> Courtesy copy of the International Application as published. <input type="checkbox"/> Courtesy copy of the first page of the International Publication (WO 01/01920). <input type="checkbox"/> Courtesy copy of the International Preliminary Examination Report. There were no annexes. for Annexes are attached but are not to be used for initial examination in this case. <input type="checkbox"/> Courtesy copy of the International Preliminary Examination Report with annexes containing pages _____ to be substituted for original specification pages _____ and claims _____ to be substituted for original claims _____ for examination in this case. <input type="checkbox"/> Formal drawings, 2 sheets, Figures 1-3. <input type="checkbox"/> Courtesy Copy of the International Search Report. 		

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/019722	International Application No. PCT/DK00/00355	Attorney's Docket No. NODSKOV1	
17. [xx] The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a)(1) - (5): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO.....\$1040.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO.....\$890.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$740.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4).....\$710.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4).....\$100.00		CALCULATIONS PTO USE ONLY	
ENTER APPROPRIATE BASIC FEE AMOUNT =		\$ 890.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$	
Claims as Originally Presented	Number Filed	Number Extra	Rate
Total Claims	4 - 20		X \$18.00 \$
Independent Claims	1 - 3		X \$84.00 \$
Multiple Dependent Claims (if applicable)			+\$280.00 \$ 280.00
TOTAL OF ABOVE CALCULATIONS =		\$1,170.00	
Claims After Post Filing Prel. Amend	Number Filed	Number Extra	Rate
Total Claims	- 20		X \$18.00 \$
Independent Claims	- 3		X \$84.00 \$
TOTAL OF ABOVE CALCULATIONS =		\$1,170.00	
Reduction of ½ for filing by small entity, if applicable. Applicant claims small entity status. See 37 CFR 1.27.		\$ 585.00	
SUBTOTAL =		\$ 585.00	
Processing fee of \$130.00 for furnishing the English translation later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$	
TOTAL NATIONAL FEE =		\$ 585.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$	
TOTAL FEES ENCLOSED =		\$ 585.00	
		Amount to be: refunded \$	
		charged \$	
a. [] A check in the amount of \$ _____ to cover the above fees is enclosed.			
b. [X] Credit Card Payment Form (PTO-2038), authorizing payment in the amount of \$585.00, is attached.			
c. [] Please charge my Deposit Account No. 02-4035 in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.			
d. [XX] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-4035 . A duplicate copy of this sheet is enclosed.			
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.			
SEND ALL CORRESPONDENCE TO:			
BROWDY AND NEIMARK, P.L.L.C. 624 NINTH STREET, N.W., SUITE 300 WASHINGTON, D.C. 20001			
TEL: (202) 628-5197 FAX: (202) 737-3528			
Date of this submission: January 2, 2002			

10/019722
JC13 Rec'd PCT/PTO 02 JAN 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Art Unit:
NODSKOV)
IA No.: PCT/DK00/00355)
IA Filed: June 30, 2000) Washington, D.C.
U.S. App. No.:)
 (Not Yet Assigned))
National Filing Date:) January 2, 2002
 (Not Yet Received))
For: A HANDHELD PIEZOELECTRIC...) Docket No.: NODSKOV1

PRELIMINARY AMENDMENT

Honorable Commissioner for Patents
Washington, D.C. 20231

Sir:

Contemporaneous with the filing of this case and
prior to calculation of the filing fee, kindly amend as
follows:

IN THE SPECIFICATION

After the title please insert the following
paragraph:

--REFERENCE TO RELATED APPLICATIONS

The present application is the national stage under
35 U.S.C. 371 of international application PCT/DK00/00355,
filed June 30, 2000, which designated the United States, and
which international application was published under PCT
Article 21(2) in the English language.--

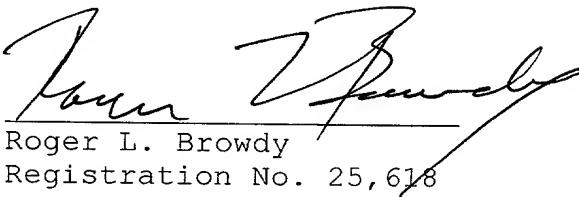
REMARKS

The above amendment to the specification is being made to insert reference to the PCT application of which the present case is a U.S. national stage.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with
Markings to Show Changes Made."

Favorable consideration and allowance are earnestly solicited.

Respectfully submitted,
BROWDY AND NEIMARK, P.L.L.C.
Attorneys for Applicant

By: 
Roger L. Browdy
Registration No. 25,618

RLB:edg

Telephone No.: (202) 628-5197
Facsimile No.: (202) 737-3528
F:\I\Inte\NODSKOV1\PTO\Preliminary Amendment.doc

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

After the title please insert the following paragraph:

--REFERENCE TO RELATED APPLICATIONS

The present application is the national stage under 35 U.S.C. 371 of international application PCT/DK00/00355, filed June 30, 2000, which designated the United States, and which international application was published under PCT Article 21(2) in the English language.--

WO 01/01920

PCT/DK00/00355

2/Pvt

1

A HANDHELD PIEZOELECTRIC ACUPUNCTURE STIMULATOR

The present invention relates to a handheld piezoelectric acupuncture stimulator with a pen-like, 5 substantially electrically insulating exterior casing, at one end of which an actuator button is mounted, while the other end is provided with a contact pin retracted from an end surface intended for contact with the skin in an acupuncture zone, said contact pin being 10 connected with a first electrode of a piezoelectric converter, the second electrode of which is in electrical connection, on one hand, with a hand contact and is mechanically operable, on the other hand, by means of a spring-loaded impact hammer operated by the actuator 15 button for generation of a high-voltage electric pain relieving pulse with a low energy content.

From DE-A1-40 26 820 an acupuncture stimulator of this kind is known, in which the piezoelectric converter and a comparatively long contact pin connected 20 with its first electrode are arranged in their respective electrically insulating casings, surrounded by an electrically conductive metallic exterior casing and a likewise metallic treatment head with an end surface designed for contact with the skin, respectively. The 25 impact hammer with accompanying actuator compression spring is accommodated in a bore in the comparatively elongate actuator button, while the return spring is mounted between recessed shoulder surfaces on the actuator button and an intermediate piece arranged 30 around the piezoelectric converter between the actuator button and the insulating casing.

The considerable number of fairly small individual components in this known stimulator complicates its manufacture and mounting, and the design with an 35 electrically conducting exterior casing and treatment

head entails a less satisfactory insulation of the high-voltage electrode of the piezoelectric converter and may impair the efficiency of the stimulator.

These drawbacks are remedied by the invention by
5 a design of a stimulator of the kind defined, which is characterized in that the piezoelectric converter is mounted together with said first and second electrodes and said impact hammer with associated spring system, which comprises an actuator compression spring and a
10 return spring, in a common electrically insulating interior casing designed for form-fit mounting in the exterior casing with said contact pin being retained with a comparatively short, protruding length at one end of the interior casing, at the other end of which
15 a longitudinally displaceable impact hammer actuator is mounted, said actuator being mechanically connected with the actuator button, whereby the electric connection between the second electrode of the piezoelectric converter and said hand contact comprises a leaf spring
20 contact, which projects through the interior casing and extends between said interior casing and the exterior casing for establishing contact with the hand contact, which is designed as a contact ring.

The leaf spring contact is preferably provided
25 with a bent end portion fixed in a recess at the free edge of an end member of the exterior casing, said end member serving as a support for the contact ring. In this way it becomes possible in a simple manner by dimensioning the bent end portion of the leaf spring
30 contact to obtain an accurate fixing of the spark distance between the end of the contact pin and the end portion of the stimulator intended for skin contact.

Owing to the fact that the handheld stimulator is designed for operation of the actuator button by the
35 thumb, an accurate positioning of the exterior contact

ring for establishing contact with the user's forefinger may be obtained by mounting the actuator button in a top member placed in extension of the exterior casing and the contact ring and having a protruding abutment 5 as support for the user's forefinger knuckle, when the actuator button is operated by the thumb.

The invention will now be explained in detail in the following with reference to the accompanying drawings, in which

10 Figs 1 and 2 show an embodiment of a piezoelectric acupuncture stimulator according to the invention in mounted condition, and an exploded view of its main components, respectively, and

15 Fig. 3 shows more schematically the component parts mounted in the interior casing of the stimulator.

Seen from outside, the handheld piezoelectric acupuncture stimulator comprises, as shown in Fig. 1, an electrically insulating exterior casing 1 of a suitable plastics material, for instance nylon, with a 20 substantially conical end portion 2 in connection with a treatment head 3 designed for contact with the skin in an acupuncture point.

At the opposite end, in extension of the exterior casing 1, a likewise electrically insulating top member 25 4 is provided, in which an actuator button 5 is mounted. Since the stimulator is designed for operation of the actuator button by the thumb, the top member 4 is designed with a protruding abutment 6, which during use is placed in abutment against the forefinger 30 knuckle and thereby positions a contact ring 7 placed between the top member 4 and the exterior casing 1 in engagement with the user's forefinger.

The active components of the stimulator, which will be described below with reference to Fig. 3, are 35 according to the invention, as shown in Fig. 2, mounted

in an electrically insulating interior casing 8, from one end of which the contact pin 9 protrudes with a comparatively short length, said contact pin being adapted to transfer the pain relieving pulses produced 5 by the stimulator by spark formation.

The interior casing 8 is designed for form-fit mounting in the exterior casing 1, the end of the contact pin 9 being somewhat retracted from the skin abutment formed by the treatment head 3 for determining 10 a well-defined spark distance.

As likewise shown in Fig. 2, the electric connection between the earth electrode of the stimulator and the contact ring 7 is established by means of a leaf spring contact 10, which is passed through the interior 15 casing 8 and extends between the interior casing and the exterior casing 1. The spring leaf contact 10 ends in a bent portion 11, which, for fixation of the position of the interior casing 8 in the exterior casing 1, is brought into engagement with a recess 12 at the edge of an end portion 13 of the exterior casing 1 20 designed to support the contact ring 7. The bent end portion 11 of the leaf spring contact 10 is retained in the recess 12 by means of a protruding cam 14 on an end member 15 of the top member 4 adapted to be inserted 25 into the end member 13.

At the opposite end of the interior casing 8 relative to the contact pin 9, a longitudinally displaceable actuator 16 is provided for the mechanical actuation of the piezoelectric converter. In the 30 mounted condition, the actuator 16 is actuated by the actuator button 5 via a profiled pressure member 17 mounted in the top member 4.

The active components of the stimulator, which are mounted in the interior casing 8, comprise, as shown in 35 Fig. 3, both the piezoelectric converter 18 with a

first electrode 19 in connection with the contact pin 9 protruding from one end of the interior casing 8 and a second electrode 20 in electrical connection with a contact ring 21 provided at one end of the leaf spring 5 contact 10, and the actuating mechanism designed for mechanical actuation of the converter 18, said mechanism comprising the longitudinally displaceable actuator 16 protruding from the opposite end of the interior casing 8 and having a guide 22 for an impact hammer 23 10 with a transverse blocking pin 24 and an actuator compression spring 25 and a return spring 27 positioned between the guide 22 and a holder 26 for the converter 18.

The mechanical function of the components shown in 15 Fig. 3 is known per se and has the effect that by a longitudinal displacement of the actuator 18 in the interior casing 8 caused by operation of the actuator button 5, compression of the actuator compression spring 25 occurs at first, which spring by the release 20 of the impact hammer 26 induced by the movement of the actuator with big force shoots the impact hammer towards the second electrode 20 of the converter 18. By the resulting instantaneous compression of the converter 18, the electrical pain relieving pulse with 25 high voltage and comparatively low energy content is generated, for instance at 15,000 volt and 6 μ A.

The pain relieving effect of the stimulator resides, as known per se, in that by the spark transfer of the pulse thus generated to an acupuncture point at 30 the place, which is to be relieved from pain, an actuation of the body's own endorphin pain relieving system is supposed to take place.

P A T E N T C L A I M S

1. A handheld piezoelectric acupuncture stimulator with a pen-like, substantially electrically insulating exterior casing (1), at one end of which an actuator button (5) is mounted, while the other end is provided with a contact pin (9) retracted from an end surface (3) intended for contact with the skin in an acupuncture zone, said contact pin being connected with a first electrode (19) of a piezoelectric converter (18),
5 the second electrode (20) of which is in electrical connection, on one hand, with a hand contact (7) and is mechanically operable, on the other hand, by means of a spring-loaded impact hammer (23) operated by the actuator button (5) for generation of a high-voltage
10 electric pain relieving pulse with a low energy content, characterized in that the piezoelectric converter (18) is mounted together with said first and second electrodes (19, 20) and said impact hammer (23) with associated spring system, which
15 comprises an actuator compression spring (25) and a return spring (27), in a common electrically insulating interior casing (8) designed for form-fit mounting in the exterior casing (1) with said contact pin (9) being retained with a comparatively short, protruding length
20 at one end of the interior casing (8), at the other end of which a longitudinally displaceable impact hammer actuator (16) is mounted, said actuator being mechanically connected with the actuator button (5), whereby
25 the electric connection between the second electrode (20) of the piezoelectric converter (18) and said hand contact (7) comprises a leaf spring contact (10), which projects through the interior casing (8) and extends between said interior casing and the exterior casing (1) for establishing contact with the hand contact (7),
30 which is designed as a contact ring.

2. An acupuncture stimulator according to claim 1, characterized in that the leaf spring contact (10) with a bent end portion (11) is fixed in a recess (12) at the free edge of an end member (13) of 5 the exterior casing (1), said end member serving as a support for the contact ring (7).

3. An acupuncture stimulator according to claim 1 or 2, characterized in that the actuator button (5) is mounted in a top member (4) placed in 10 extension of the exterior casing (1) and the contact ring (7) and having a protruding abutment (6) as support for the forefinger knuckle of the user, when the actuator button (5) is operated by the thumb.

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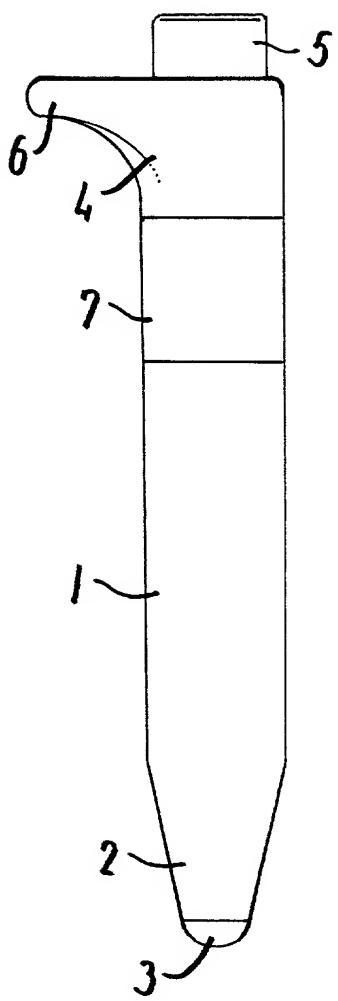


FIG. I

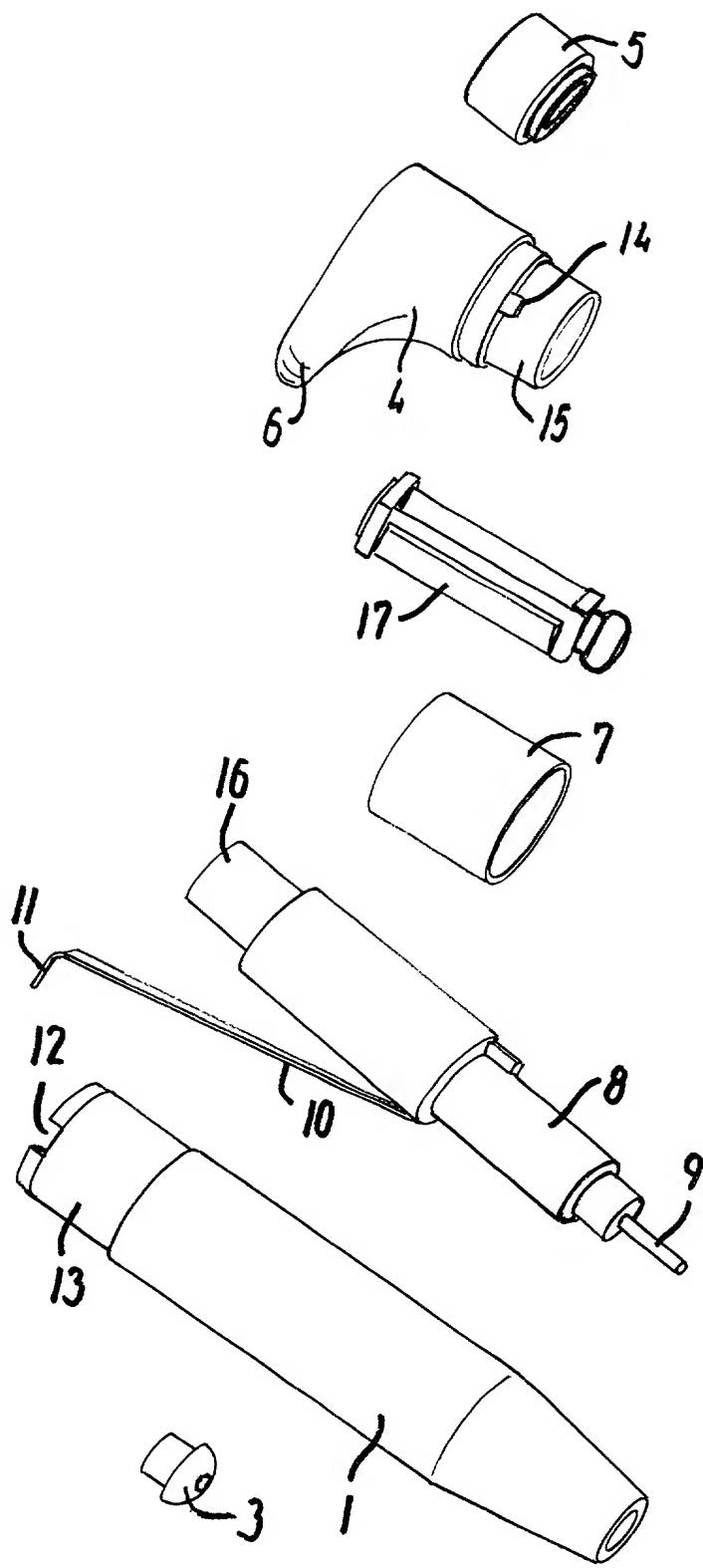
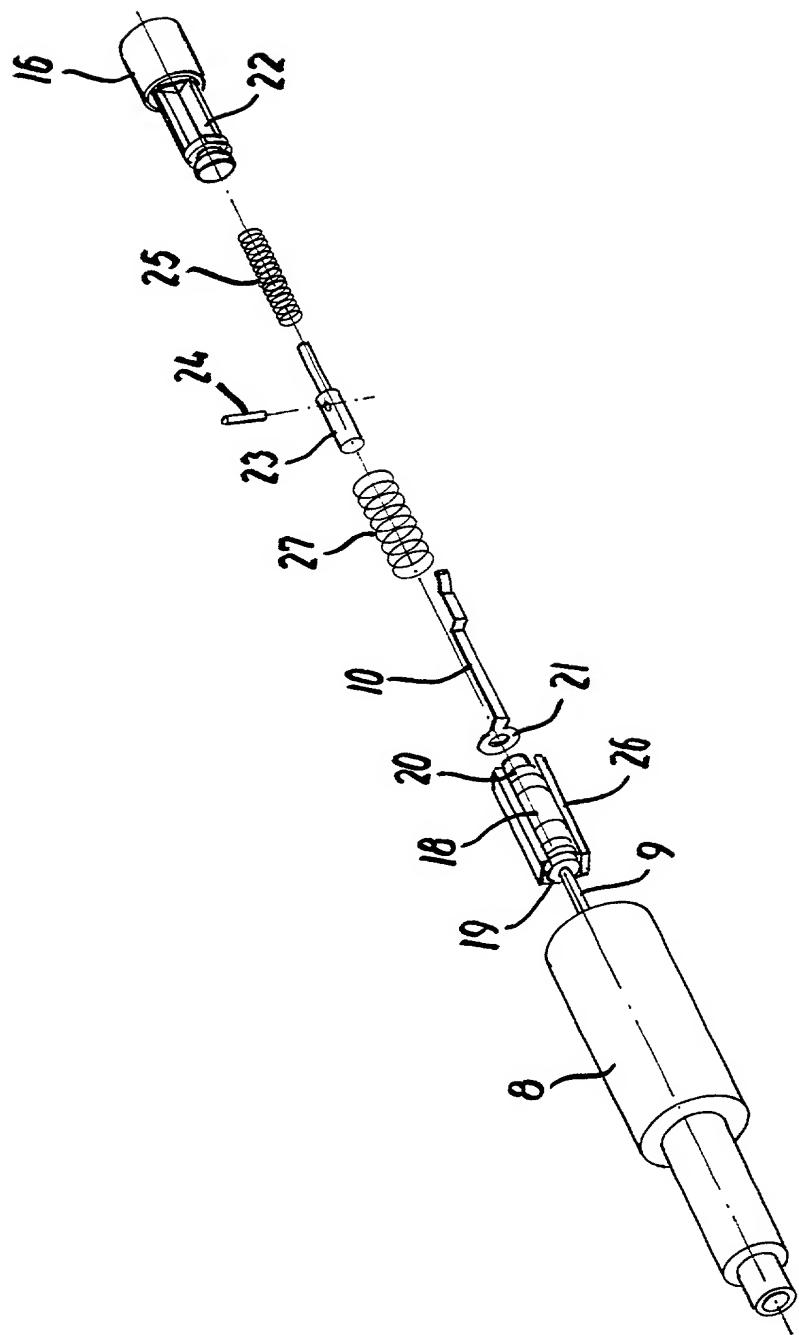


FIG. 2

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FIG. 3



Combined Declaration for Patent Application and Power of Attorney

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
(insert full title here) A handheld piezoelectric acupuncture stimulator

the specification of which (check one)

- is attached hereto;
- was filed in the United States under 35 U.S.C. §111 on _____, as USSN _____ *; or
- was/will be filed in the U.S. under 35 U.S.C. §371 by entry into the U.S. national stage of an international (PCT) application, PCT/ DK00/00355; filed 30 June 2000, entry requested on _____ *; national stage application received USSN _____ *; §371/§102(e) date _____ * (*if known),

and was amended on _____ (if applicable).

(include dates of amendments under PCT Art. 19 and 34 if PCT)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above; and I acknowledge the duty to disclose to the Patent and Trademark Office (PTO) all information known by me to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §§ 119, 365 of any prior foreign application(s) for patent or inventor's certificate, or prior PCT application(s) designating a country other than the U.S., listed below with the "Yes" box checked and have also identified below any such application having a filing date before that of the application on which priority is claimed:

<u>BA 1999 00251</u>	<u>Denmark</u>	<u>02 July 1999</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day Month Year Filed)	YES	NO
<u> </u>	<u> </u>	<u> </u>	<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day Month Year Filed)	YES	NO
<u> </u>	<u> </u>	<u> </u>	<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day Month Year Filed)	YES	NO

I hereby claim the benefit under 35 U.S.C. § 120 of any prior U.S. non-provisional Application(s) or prior PCT Application(s) designating the U.S. listed below, or under § 119(e) of any prior U.S. provisional applications listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in such U.S. or PCT application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the PTO all information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application and the national filing date of this application:

<u>(Application Serial No.)</u>	<u>(Day Month Year Filed)</u>	<u>(Status: patented, pending, abandoned)</u>
<u> </u>	<u> </u>	<u> </u>
<u>(Application Serial No.)</u>	<u>(Day Month Year Filed)</u>	<u>(Status: patented, pending, abandoned)</u>

I hereby appoint the following attorneys, with full power of substitution, association, and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

7 — SHERIDAN NEIMARK, REG. NO. 20,520 - ROGER L. BROWDY, REG. NO. 25,618 - ANNE M. KORNBAU, REG. NO. 25,884
NORMAN J. LATKER, REG. NO. 19,963 - IVER P. COOPER, REG. NO. 28,005 - ALLEN C. YUN, REG. NO. 37,971*
NICK S. BROMER, REG. NO. 33,478 - * Patent Agent

ADDRESS ALL CORRESPONDENCE TO
BROWDY AND NEIMARK, P.L.L.C.
419 Seventh Street, N.W.
Washington, D.C. 20004

DIRECT ALL TELEPHONE CALLS TO:
BROWDY AND NEIMARK
(202) 628-5197

The undersigned hereby authorizes the U.S. Attorneys or Agents named herein to accept and follow instructions from INTERNATIONAL PATENT-BUREAU as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between the U.S. Attorney or Agent and the undersigned. In the event of a change of the persons from whom instructions may be taken, the U.S. Attorneys or Agents named herein will be so notified by the undersigned.

Page 2 of 2

Atty.Docket:

Title:

U.S. Application filed _____, Serial No. _____
PCT Application filed 30 June 2000, Serial No. PCT/DK00/00355

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST INVENTOR <i>Preben NØDSKOV</i>	INVENTOR'S SIGNATURE <i>H. Nødskov</i>	DATE <i>26-11-01</i>
RESIDENCE <i>RUNGSTED KYST, Denmark DKX</i>	CITIZENSHIP <i>Danish</i>	
POST OFFICE ADDRESS <i>Thyrasvej 5, DK-2960 RUNGSTED KYST, Denmark</i>		
FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		
FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		
FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		
FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		
FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		
FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
POST OFFICE ADDRESS		

ALL INVENTORS MUST REVIEW APPLICATION AND DECLARATION BEFORE SIGNING. ALL ALTERATIONS MUST BE INITIALED AND DATED BY ALL INVENTORS PRIOR TO EXECUTION. NO ALTERATIONS CAN BE MADE AFTER THE DECLARATION IS SIGNED. ALL PAGES OF DECLARATION MUST BE SEEN BY ALL INVENTORS.